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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,907	10/17/2003	Piero Del Soldato	026220-00039	7509
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1050 CONNECTICUT AVENUE, N.W.			CHONG, YONG SOO	
SUITE 400 WASHINGTO	N DC 20036		. ART UNIT	PAPER NUMBER
W/15/11/VO10/	11, 50 20050		1617	
			NOTIFICATION DATE	DELIVERY MODE
			11/29/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
	10/686,907	DEL SOLDATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yong S. Chong	1617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Se	eptember 2007.	•				
• —	· 					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) 3 is/are withdrawn fro 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,4 and 5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original than the correction of the original than the correction of the correction of the original than the correction of the correcti	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

Application/Control Number: 10/686,907

Art Unit: 1617

DETAILED ACTION

Status of the Application

This Office Action is in response to applicant's arguments filed on 9/21/2007.

Claim(s) 6 has been cancelled. Claim(s) 1-5 are pending. Claim(s) 3 has been withdrawn. Claim(s) 1-2, 4-5 are examined herein.

Applicant's amendments have rendered all 112 rejections of the last Office Action moot, therefore hereby withdrawn.

Applicant's arguments have been fully considered but found not persuasive. The 103 rejection of the last Office Action are maintained for reasons of record and repeated below for Applicant's convenience.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham vs John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim(s) 1 (in part), 2, 4, 5-6 (in part) are rejected under 35 U.S.C. 103(a) as being obvious over Del Soldato et al. (WO 95/30641) in view of Ara et al. ("Cyclooxygenase and lipoxygenase inhibitors in cancer therapy" *Prostaglandins*, *Leukotrienes and Essential Fatty Acids*, 1996, 54, 3-16).

The instant claims are directed to a method of treating gastrointestinal tumors by administering a compound of formula I, where X=O, R is subgroup VIA and formula Ia.

Del Soldato et al. disclose cyclooxygenase (COX) inhibitors (pg. 1) of the formula $A-X_1-NO_2$, where $A=R(COX_u)_t$ and X=O. A preferred compound is where R is formula la, where t and u are 1, and R_1 is $OCOR_3$ in the ortho position, wherein R_3 is methyl and R_2 is H. Also, X_1-NO_2 is a 6-membered cycloalkyene, substituted with a nitroxymethyl group at the 3 position (claims).

However, Del Soldato et al. fail to disclose specifically treating gastrointestinal tumors.

Ara et al. disclose the general teaching that cyclooxygenase inhibitors are used in cancer therapy, specifically for tumors of the colon (pg. 3, left column and pg. 6, left column).

Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed invention was made, to have administered a compound of formula I, where X=O, R is subgroup VIA and formula Ia to treat gastrointestinal tumors.

A person of ordinary skill in the art would have been motivated to administer a compound of formula I, where X=O, R is subgroup VIA and formula Ia to treat gastrointestinal tumors because: (1) both Del Soldato and Ara et al. are analogous art since they both disclose cyclooxygenase inhibitors; (2) Ara et al. disclose the general teaching that cyclooxygenase inhibitors are used in treating tumors of the colon; and (3) Del Soldato et al. disclose a compound of formula I, where X=O, R is subgroup VIA and formula Ia as a cyclooxygenase inhibitor. Therefore, the skilled artisan would have had a reasonable expectation of success in treating colon tumors by administering a compound of formula I, where X=O, R is subgroup VIA and formula Ia.

Response to Arguments

Applicant argues that Ara et al. provides no teaching or motivation for those of skill in the art to indiscriminately alter the good action of the NSAIDs in cancer therapy, much less by linking a nitric acid ester to the NSAIDs and administering such nitroderivatives to treat colon tumors.

This is not persuasive because the rejection is not based on altering the good action of NSAIDs or modifying NSAIDs by linking a nitric acid ester.

In response to applicant's arguments against the references, one cannot show nonobviousness by attacking references individually where the rejections are based on the combination of references. See *In re Keller*, 642 F. 2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F. 2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant is reminded that the active agent is disclosed by Del Soldato et al. to be a cyclooxygenase inhibitor. Ara et al. disclose the general teaching that cyclooxygenase inhibitors are used in treating tumors of the colon. Therefore, the skilled artisan would have had a reasonable expectation of success in treating colon tumors by administering a compound of formula I, where X=O, R is subgroup VIA and formula Ia as disclosed by Del Soldato et al.

The Del Soldato Declaration under 37 CFR 1.132 filed 10/10/2003 is insufficient to overcome the rejection of claims 1-2, 4-5 based upon Del Soldato et al. (WO 95/30641) in view of Ara et al. ("Cyclooxygenase and lipoxygenase inhibitors in cancer therapy" *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 1996, 54, 3-16) as set forth in the last Office action because the Del Soldato Declaration simply shows that the invention as claimed works as intended. Examiner does not find these results as unexpected or surprising in view of the cited prior art. There is also no side-by-side comparison of the closest prior art. Furthermore, there is no basis or foundation for the results to be unexpected.

In view of the foregoing, when all of the evidence is considered, the totality of the rebuttal evidence of nonobviousness fails to outweigh the evidence of obviousness.

Regarding the establishment of unexpected results or synergism, a few notable principles are well settled. The Applicant has the initial burden to explain any proffered data and establish how any results therein should be taken to be unexpected and significant. See MPEP 716.02 (b). It is applicant's burden to present clear and convincing factual evidence of nonobviousness or unexpected results, i.e., side-by-side

comparison with the closest prior art in support of nonobviousness for the instant claimed invention over the prior art. The claims must be commensurate in the scope with any evidence of unexpected results. See MPEP 716.02 (d). With regard to synergism, a prima facie case of synergism has not been established if the data or result is not obvious. The synergism should be sufficient to overcome the obviousness, but must also be commensurate with the scope of the claims. Further, if the Applicant provides a DECLARATION UNDER 37 CFR 1.132, it must compare the claimed subject matter with the closest prior art in order to be effective to rebut a prima facie case if obviousness. See MPEP 716.02 (e).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong S. Chong whose telephone number is (571)-272-8513. The examiner can normally be reached on M-F, 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SREENI PADMANABHAN can be reached on (571)-272-0629. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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THE PROMANACHAN